

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.44	<13	PASS
		1	3	5.56	<13	PASS
		1	5	5.33	<13	PASS
		3	0	5.52	<13	PASS
		3	2	5.48	<13	PASS
		3	3	5.36	<13	PASS
		6	0	5.57	<13	PASS
	MCH	1	0	5.74	<13	PASS
		1	3	5.87	<13	PASS
		1	5	5.59	<13	PASS
		3	0	6.06	<13	PASS
		3	2	6.16	<13	PASS
		3	3	6.07	<13	PASS
		6	0	6.24	<13	PASS
	HCH	1	0	5.47	<13	PASS
		1	3	5.42	<13	PASS
		1	5	5.65	<13	PASS
		3	0	5.76	<13	PASS
		3	2	5.81	<13	PASS
		3	3	5.81	<13	PASS
		6	0	5.71	<13	PASS
16QAM	LCH	1	0	6.07	<13	PASS
		1	3	6.02	<13	PASS
		1	5	5.96	<13	PASS
		3	0	6.06	<13	PASS
		3	2	6.24	<13	PASS
		3	3	6.09	<13	PASS
		6	0	6.2	<13	PASS
	MCH	1	0	6.95	<13	PASS
		1	3	7.09	<13	PASS
		1	5	6.8	<13	PASS
		3	0	7.04	<13	PASS
		3	2	7.16	<13	PASS
		3	3	7.13	<13	PASS

		6	0	7.05	<13	PASS
	HCH	1	0	6.49	<13	PASS
		1	3	6.31	<13	PASS
		1	5	6.42	<13	PASS
		3	0	6.12	<13	PASS
		3	2	6.34	<13	PASS
		3	3	6.3	<13	PASS
		6	0	6.42	<13	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.41	<13	PASS
		1	7	5.53	<13	PASS
		1	14	5.61	<13	PASS
		8	0	5.45	<13	PASS
		8	4	5.59	<13	PASS
		8	7	5.52	<13	PASS
		15	0	5.51	<13	PASS
	MCH	1	0	6.02	<13	PASS
		1	7	6.23	<13	PASS
		1	14	6.24	<13	PASS
		8	0	6.23	<13	PASS
		8	4	6.26	<13	PASS
		8	7	6.35	<13	PASS
		15	0	6.33	<13	PASS
	HCH	1	0	5.1	<13	PASS
		1	7	5.38	<13	PASS
		1	14	5.43	<13	PASS
		8	0	5.6	<13	PASS
		8	4	5.61	<13	PASS
		8	7	5.74	<13	PASS
		15	0	5.81	<13	PASS
16QAM	LCH	1	0	6.02	<13	PASS
		1	7	6.25	<13	PASS
		1	14	6.27	<13	PASS
		8	0	6.04	<13	PASS
		8	4	6.09	<13	PASS
		8	7	6.11	<13	PASS
		15	0	6.2	<13	PASS

	MCH	1	0	7	<13	PASS
		1	7	6.82	<13	PASS
		1	14	7.02	<13	PASS
		8	0	6.79	<13	PASS
		8	4	6.82	<13	PASS
		8	7	6.84	<13	PASS
		15	0	7.11	<13	PASS
	HCH	1	0	5.96	<13	PASS
		1	7	6.04	<13	PASS
		1	14	6.29	<13	PASS
		8	0	6.2	<13	PASS
		8	4	6.1	<13	PASS
		8	7	6.28	<13	PASS
		15	0	6.25	<13	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.22	<13	PASS
		1	12	5.25	<13	PASS
		1	24	5.27	<13	PASS
		12	0	5.5	<13	PASS
		12	6	5.46	<13	PASS
		12	13	5.61	<13	PASS
		25	0	5.67	<13	PASS
	MCH	1	0	5.64	<13	PASS
		1	12	5.79	<13	PASS
		1	24	5.73	<13	PASS
		12	0	6.27	<13	PASS
		12	6	6.24	<13	PASS
		12	13	6.24	<13	PASS
		25	0	6.45	<13	PASS
	HCH	1	0	5.51	<13	PASS
		1	12	5.19	<13	PASS
		1	24	5.69	<13	PASS
		12	0	5.56	<13	PASS
		12	6	5.61	<13	PASS
		12	13	5.64	<13	PASS
		25	0	5.67	<13	PASS
16QAM	LCH	1	0	5.86	<13	PASS

		1	12	5.76	<13	PASS
		1	24	6.04	<13	PASS
		12	0	6.17	<13	PASS
		12	6	6.19	<13	PASS
		12	13	6.21	<13	PASS
		25	0	6.28	<13	PASS
	MCH	1	0	6.65	<13	PASS
		1	12	6.68	<13	PASS
		1	24	6.62	<13	PASS
		12	0	6.97	<13	PASS
		12	6	7.18	<13	PASS
		12	13	7.03	<13	PASS
		25	0	7.2	<13	PASS
	HCH	1	0	5.97	<13	PASS
		1	12	5.82	<13	PASS
		1	24	6.33	<13	PASS
		12	0	6.44	<13	PASS
		12	6	6.46	<13	PASS
		12	13	6.53	<13	PASS
		25	0	6.25	<13	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.51	<13	PASS
		1	24	5.51	<13	PASS
		1	49	5.71	<13	PASS
		25	0	5.6	<13	PASS
		25	12	5.69	<13	PASS
		25	25	5.77	<13	PASS
		50	0	5.65	<13	PASS
	MCH	1	0	5.97	<13	PASS
		1	24	6.04	<13	PASS
		1	49	6.16	<13	PASS
		25	0	6.31	<13	PASS
		25	12	6.44	<13	PASS
		25	25	6.29	<13	PASS
		50	0	6.45	<13	PASS
	HCH	1	0	5.37	<13	PASS
		1	24	5.1	<13	PASS

		1	49	5.42	<13	PASS
		25	0	5.61	<13	PASS
		25	12	5.6	<13	PASS
		25	25	5.66	<13	PASS
		50	0	5.58	<13	PASS
16QAM	LCH	1	0	6.07	<13	PASS
		1	24	6.12	<13	PASS
		1	49	6.37	<13	PASS
		25	0	6.26	<13	PASS
		25	12	6.42	<13	PASS
		25	25	6.5	<13	PASS
		50	0	6.25	<13	PASS
	MCH	1	0	7.02	<13	PASS
		1	24	6.91	<13	PASS
		1	49	7.18	<13	PASS
		25	0	6.98	<13	PASS
		25	12	7.16	<13	PASS
		25	25	7.1	<13	PASS
		50	0	7.05	<13	PASS
	HCH	1	0	6.12	<13	PASS
		1	24	5.94	<13	PASS
		1	49	6.18	<13	PASS
		25	0	6.17	<13	PASS
		25	12	6.21	<13	PASS
		25	25	6.34	<13	PASS
		50	0	6.21	<13	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.42	<13	PASS
		1	37	5.63	<13	PASS
		1	74	5.84	<13	PASS
		37	0	5.57	<13	PASS
		37	18	5.74	<13	PASS
		37	38	6	<13	PASS
		75	0	6.13	<13	PASS
	MCH	1	0	5.88	<13	PASS
		1	37	6.05	<13	PASS
		1	74	5.97	<13	PASS

		37	0	6.28	<13	PASS
		37	18	6.37	<13	PASS
		37	38	6.33	<13	PASS
		75	0	6.69	<13	PASS
	HCH	1	0	6.15	<13	PASS
		1	37	5.59	<13	PASS
		1	74	5.73	<13	PASS
		37	0	5.82	<13	PASS
		37	18	5.62	<13	PASS
		37	38	5.59	<13	PASS
		75	0	5.93	<13	PASS
16QAM	LCH	1	0	5.97	<13	PASS
		1	37	6.25	<13	PASS
		1	74	6.79	<13	PASS
		37	0	6.27	<13	PASS
		37	18	6.42	<13	PASS
		37	38	6.75	<13	PASS
		75	0	6.54	<13	PASS
	MCH	1	0	6.64	<13	PASS
		1	37	7.06	<13	PASS
		1	74	6.61	<13	PASS
		37	0	6.97	<13	PASS
		37	18	7.1	<13	PASS
		37	38	7.04	<13	PASS
		75	0	7.1	<13	PASS
	HCH	1	0	6.84	<13	PASS
		1	37	6.32	<13	PASS
		1	74	6.59	<13	PASS
		37	0	6.59	<13	PASS
		37	18	6.34	<13	PASS
		37	38	6.26	<13	PASS
		75	0	6.37	<13	PASS

Channel Bandwidth: 20 MHz

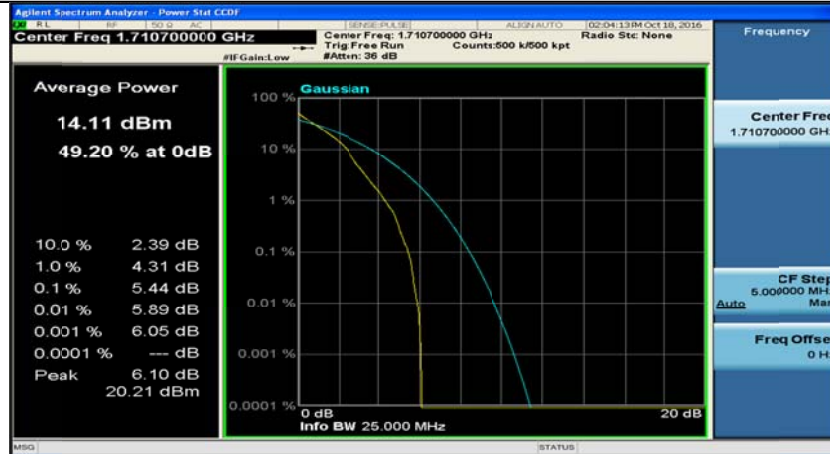
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.16	<13	PASS
		1	49	5.61	<13	PASS
		1	99	5.88	<13	PASS
		50	0	5.74	<13	PASS

		50	25	5.93	<13	PASS
		50	50	6.13	<13	PASS
		100	0	5.91	<13	PASS
	MCH	1	0	5.76	<13	PASS
		1	49	5.8	<13	PASS
		1	99	5.74	<13	PASS
		50	0	6.32	<13	PASS
		50	25	6.44	<13	PASS
		50	50	6.2	<13	PASS
		100	0	6.33	<13	PASS
	HCH	1	0	6.37	<13	PASS
		1	49	5.8	<13	PASS
		1	99	5.92	<13	PASS
		50	0	6.08	<13	PASS
		50	25	5.77	<13	PASS
		50	50	5.64	<13	PASS
		100	0	5.74	<13	PASS
16QAM	LCH	1	0	6.17	<13	PASS
		1	49	6.4	<13	PASS
		1	99	7.13	<13	PASS
		50	0	6.31	<13	PASS
		50	25	6.61	<13	PASS
		50	50	6.87	<13	PASS
		100	0	6.53	<13	PASS
	MCH	1	0	6.7	<13	PASS
		1	49	6.52	<13	PASS
		1	99	6.72	<13	PASS
		50	0	6.98	<13	PASS
		50	25	7.24	<13	PASS
		50	50	6.99	<13	PASS
		100	0	6.95	<13	PASS
	HCH	1	0	6.9	<13	PASS
		1	49	6.24	<13	PASS
		1	99	6.22	<13	PASS
		50	0	6.79	<13	PASS
		50	25	6.47	<13	PASS
		50	50	6.24	<13	PASS
		100	0	6.49	<13	PASS

Test Graphs

Channel Bandwidth: 1.4 MHz

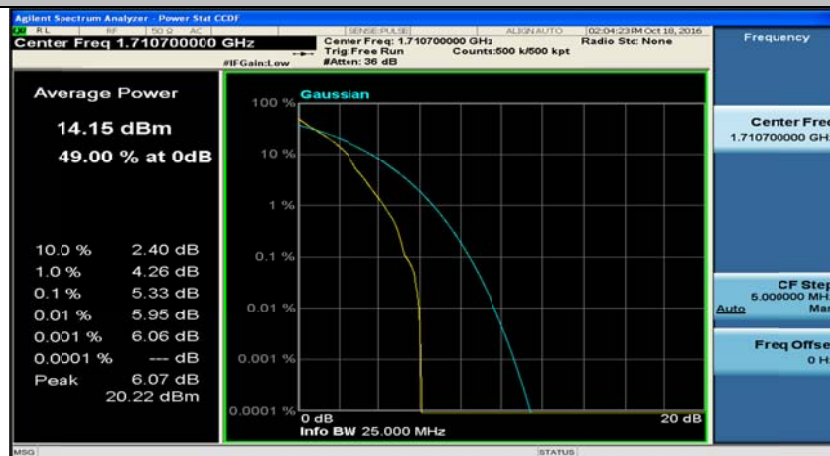
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



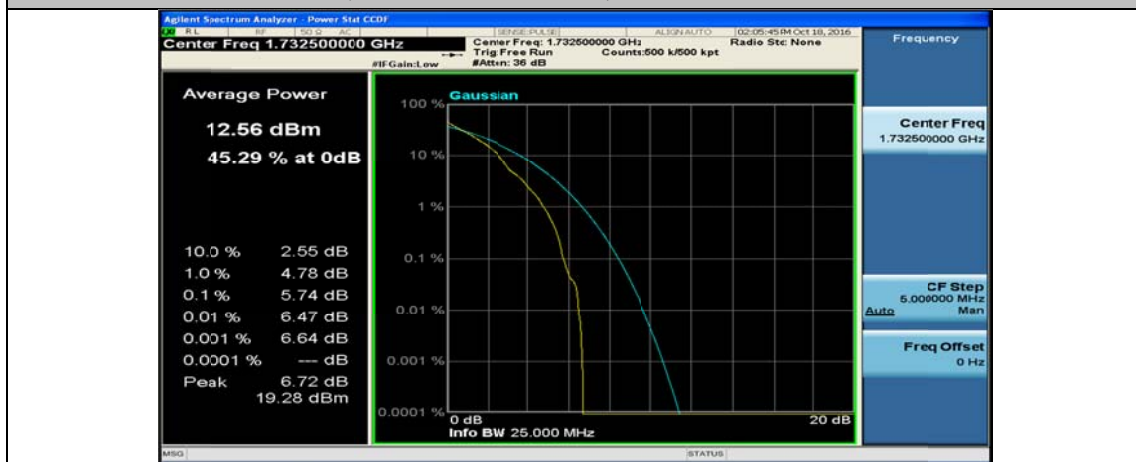
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



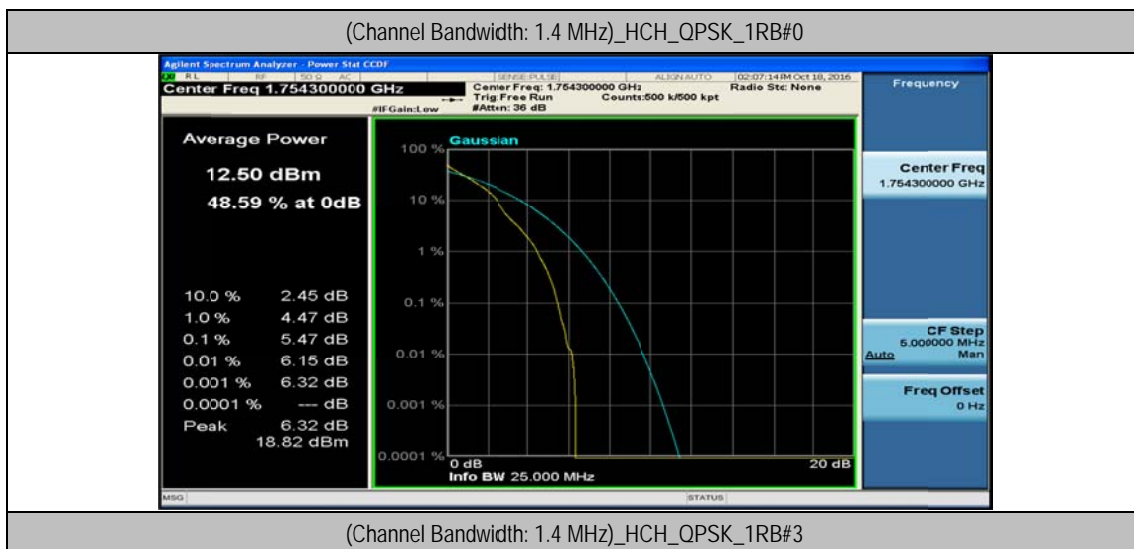
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



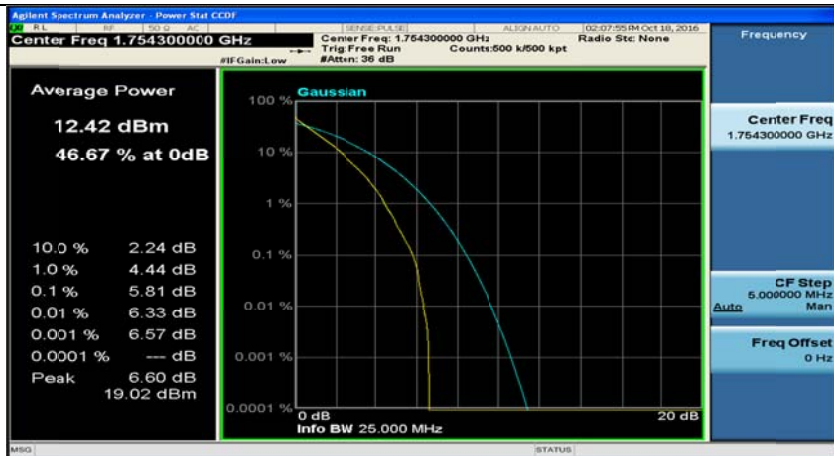
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(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



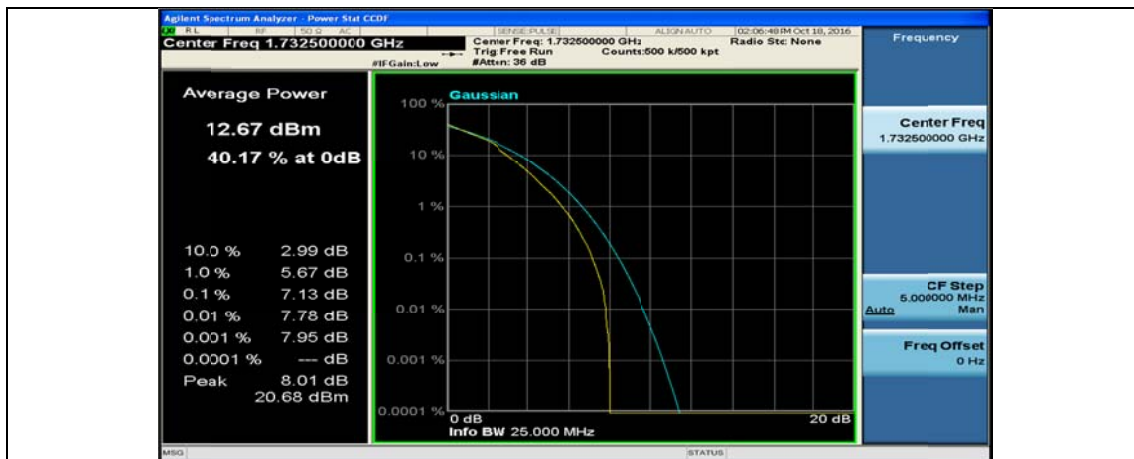
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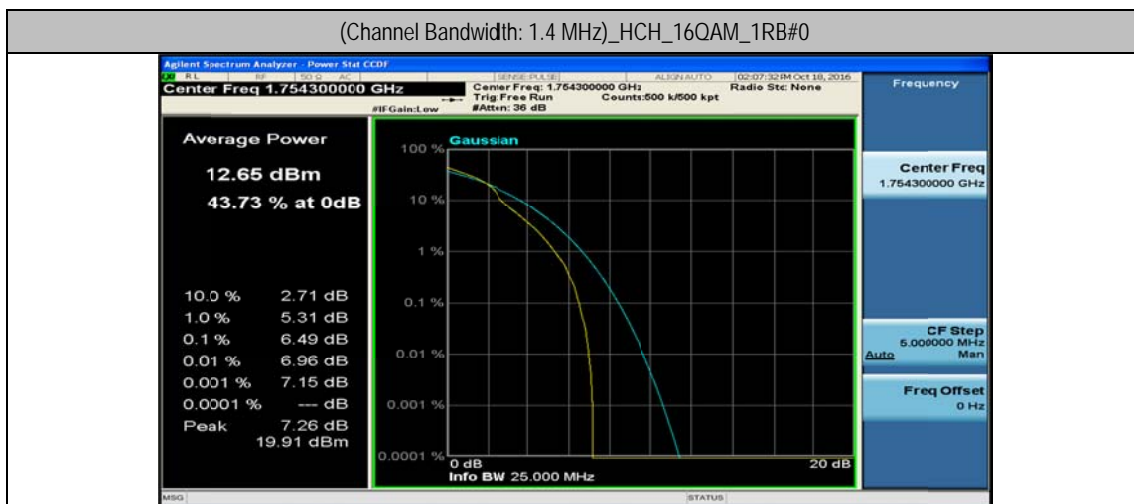
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



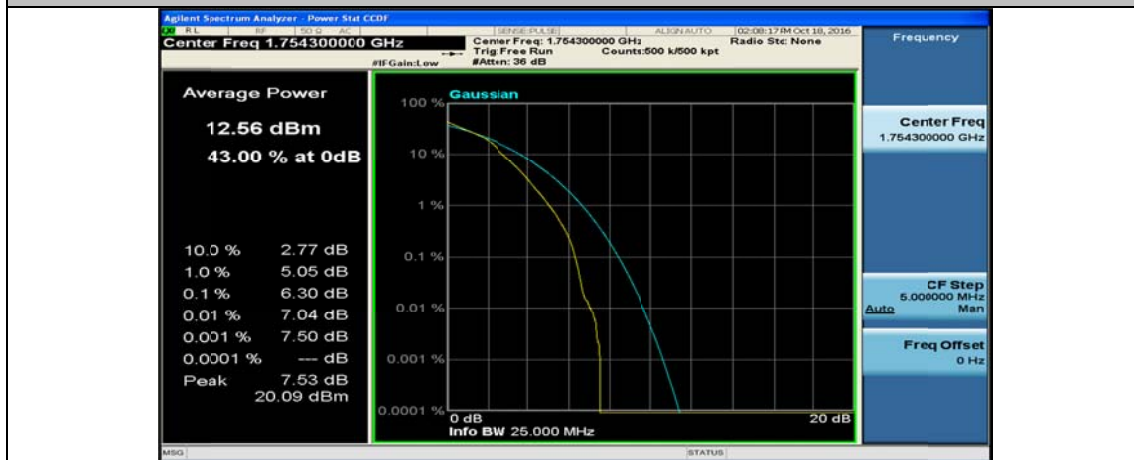
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



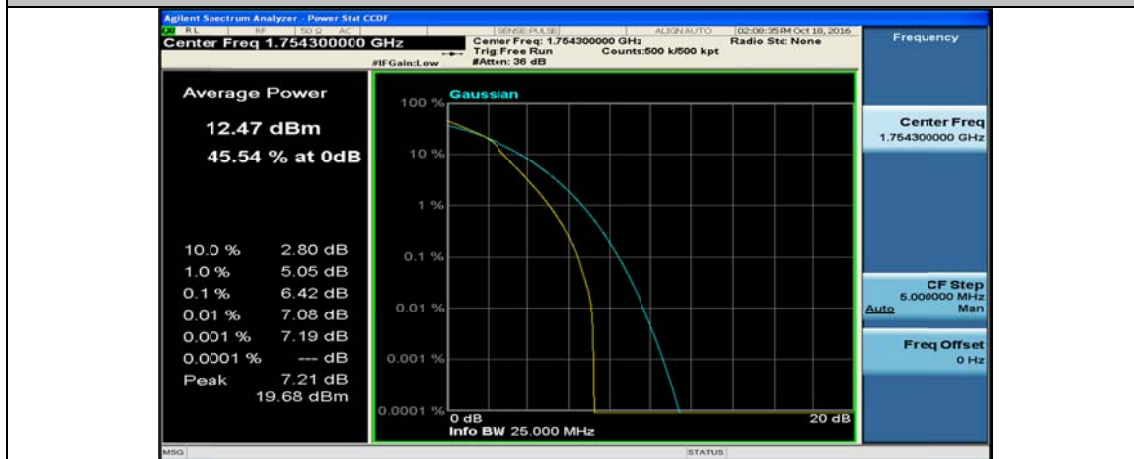
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0



Channel Bandwidth: 3 MHz

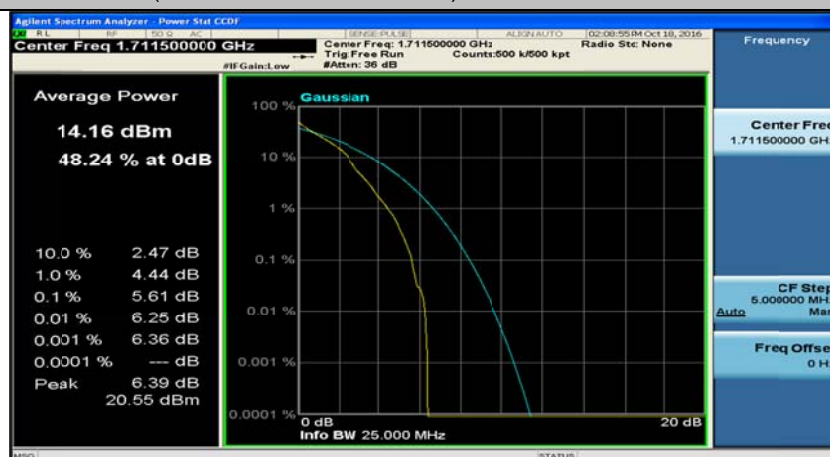
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



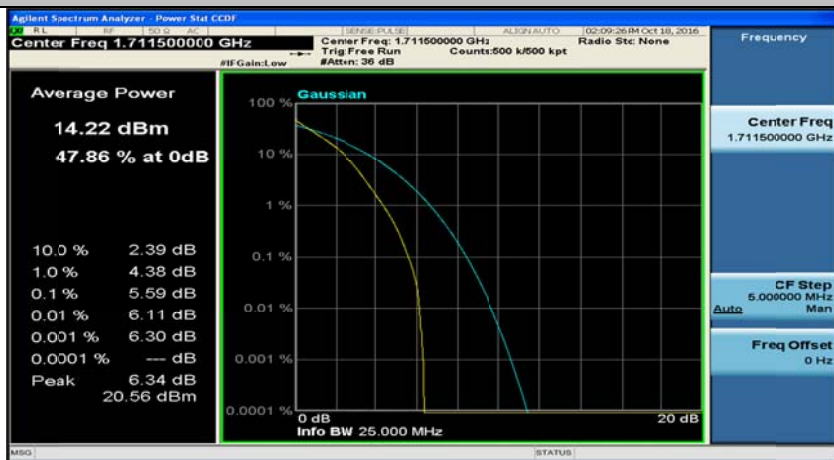
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



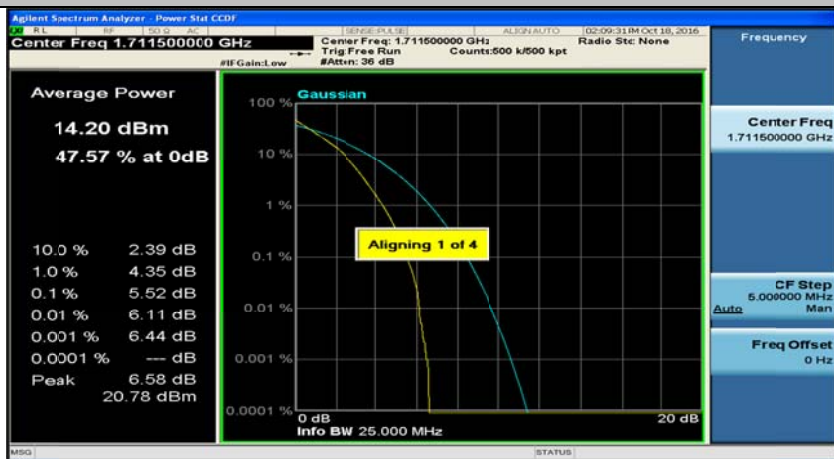
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



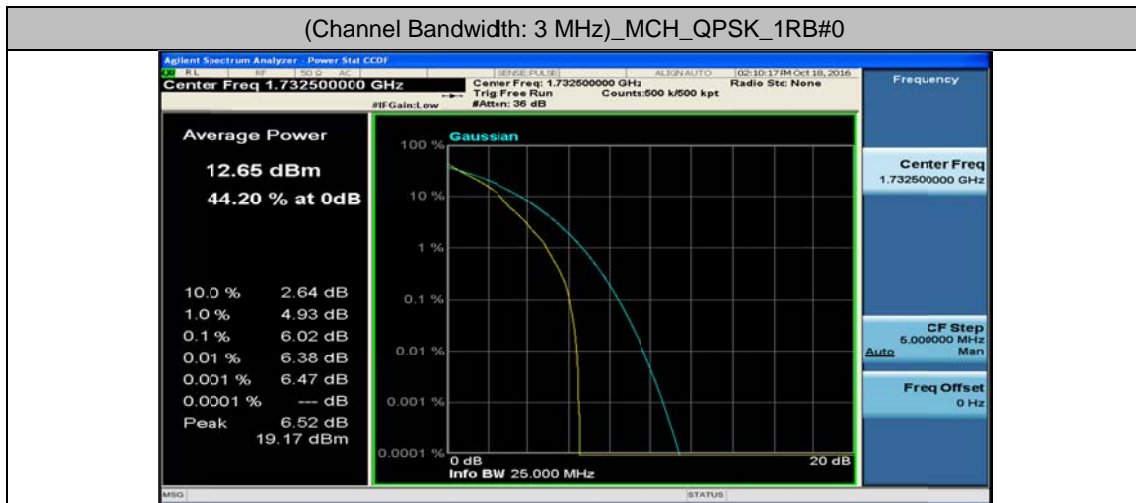
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



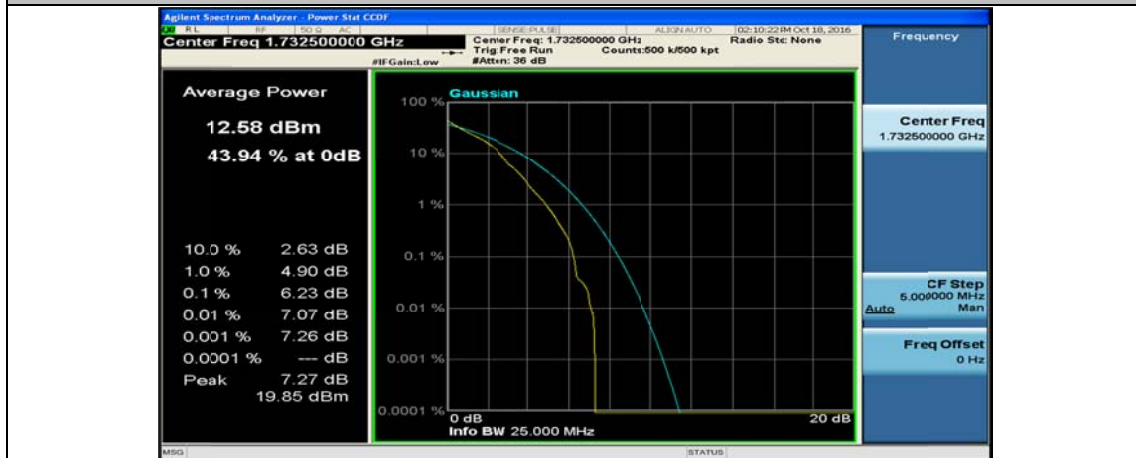
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



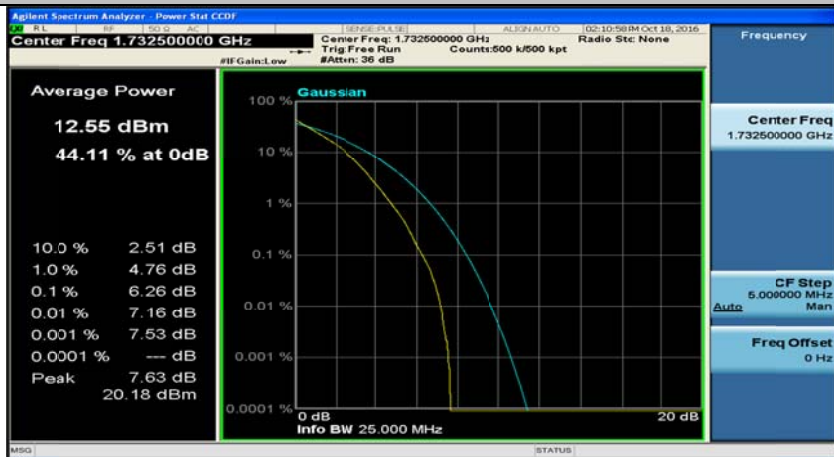
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



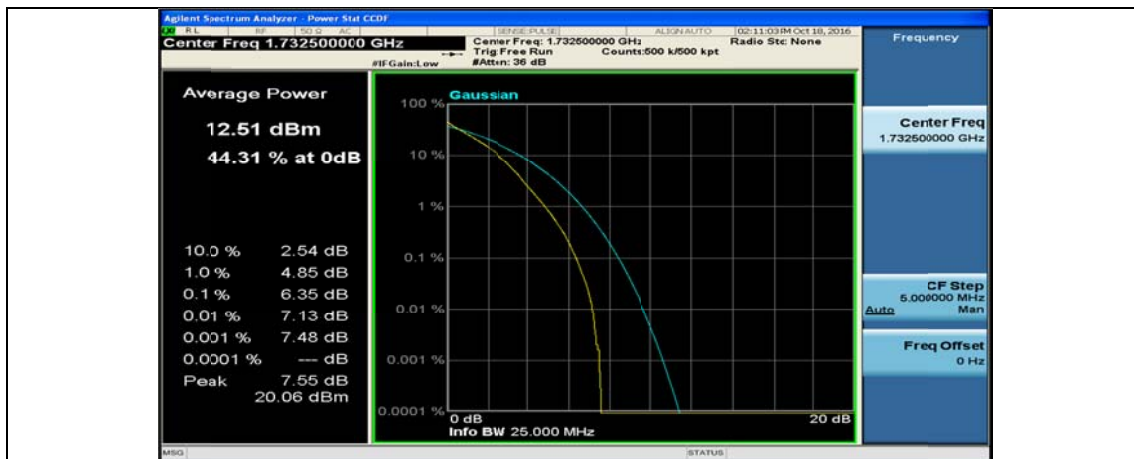
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



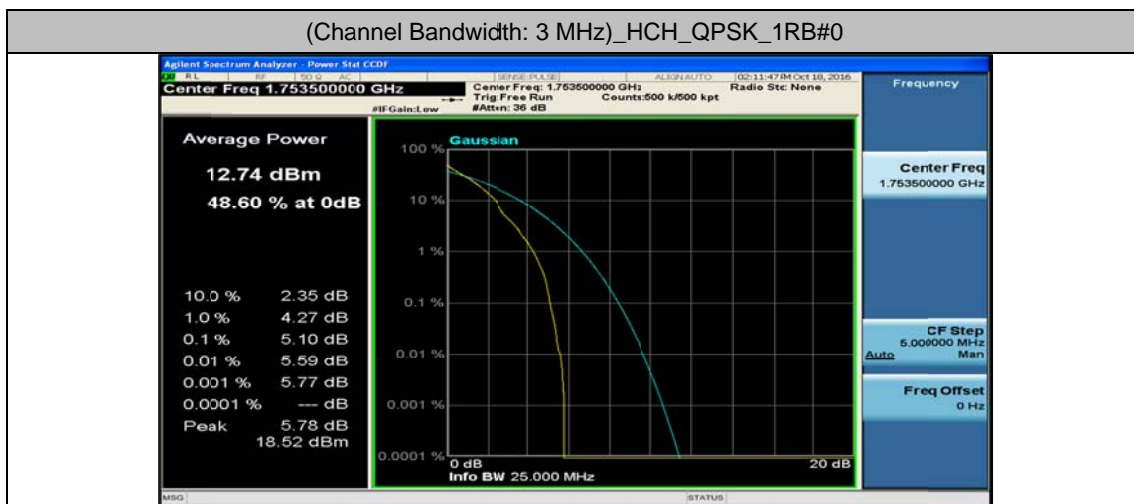
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4



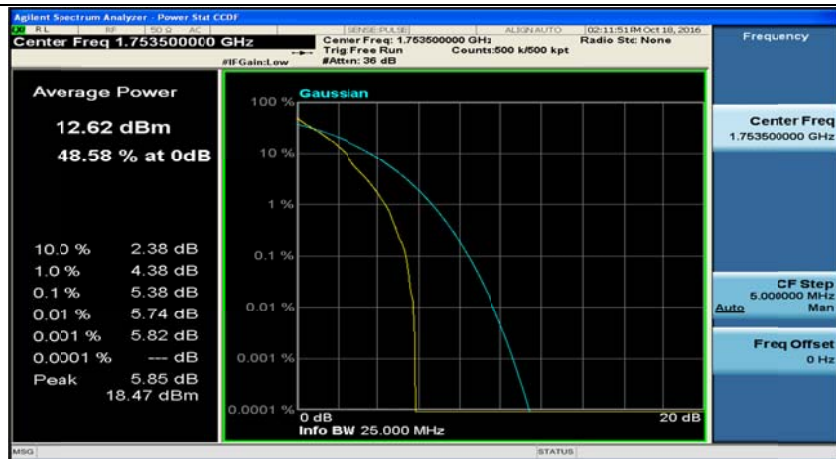
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7



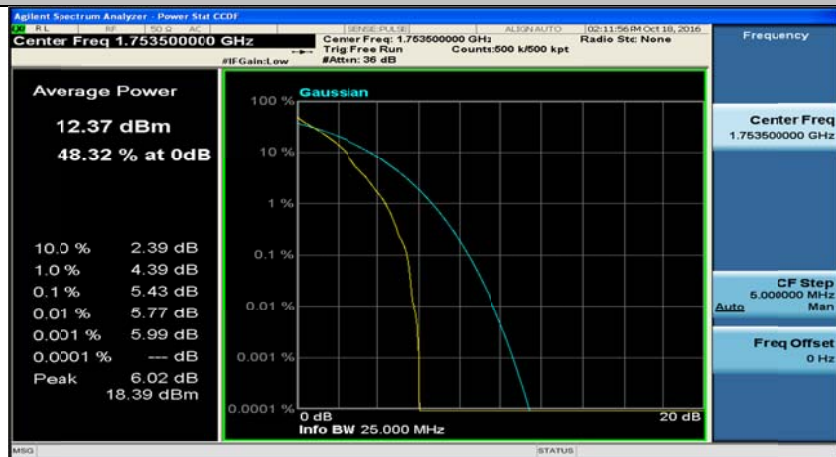
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0



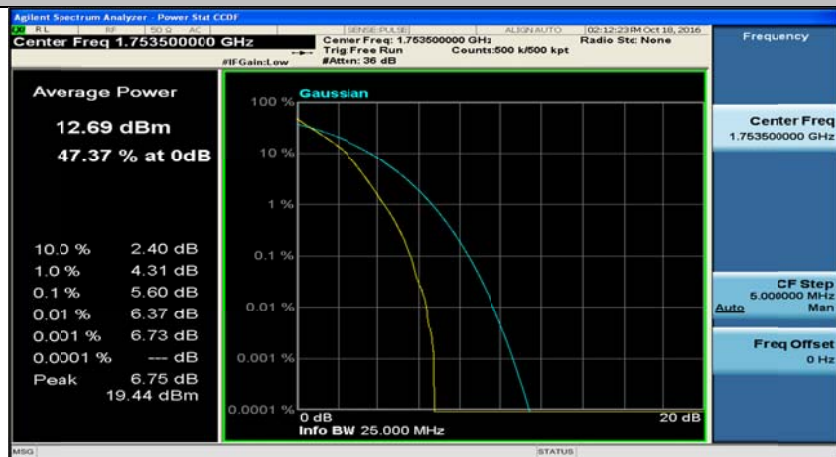
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



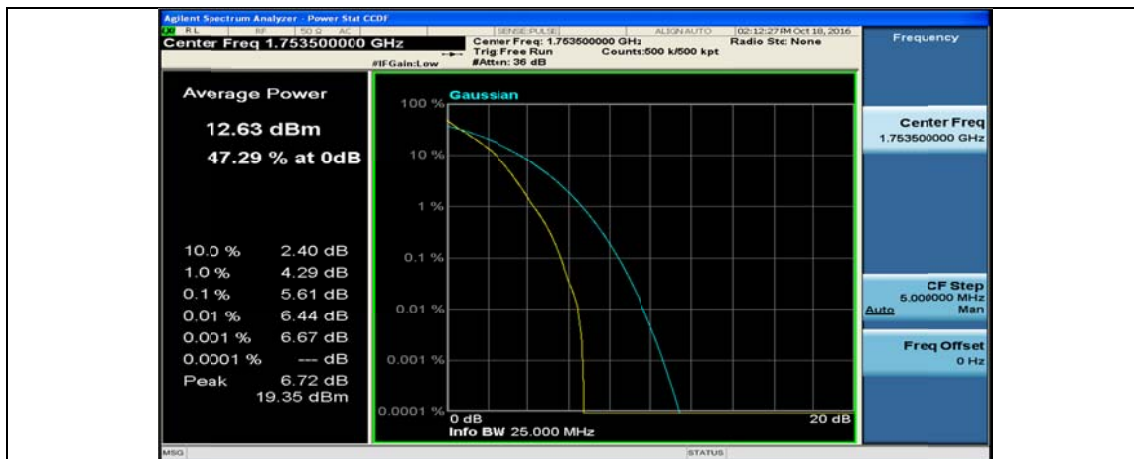
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



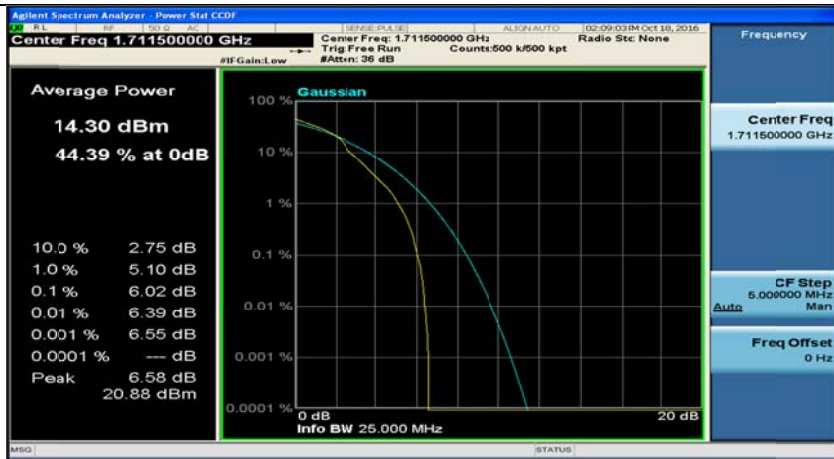
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



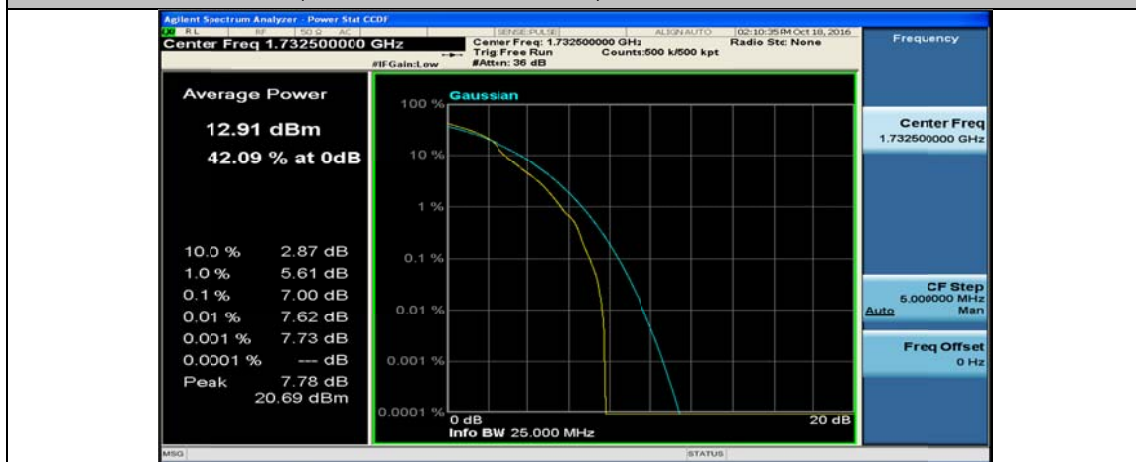
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0



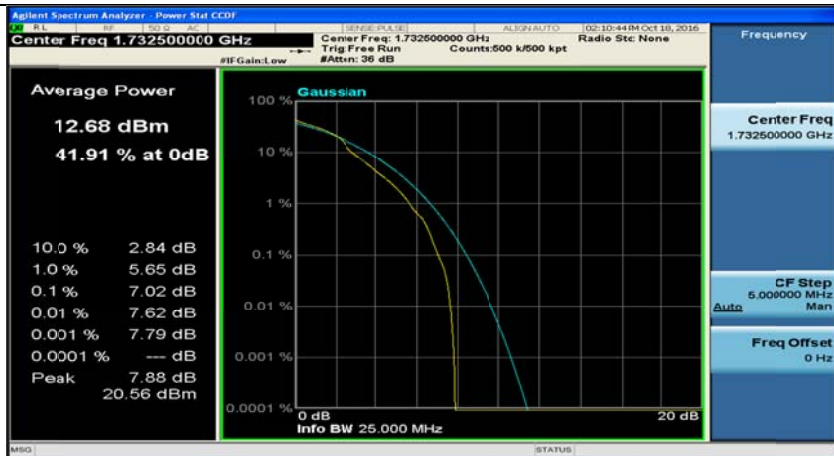
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



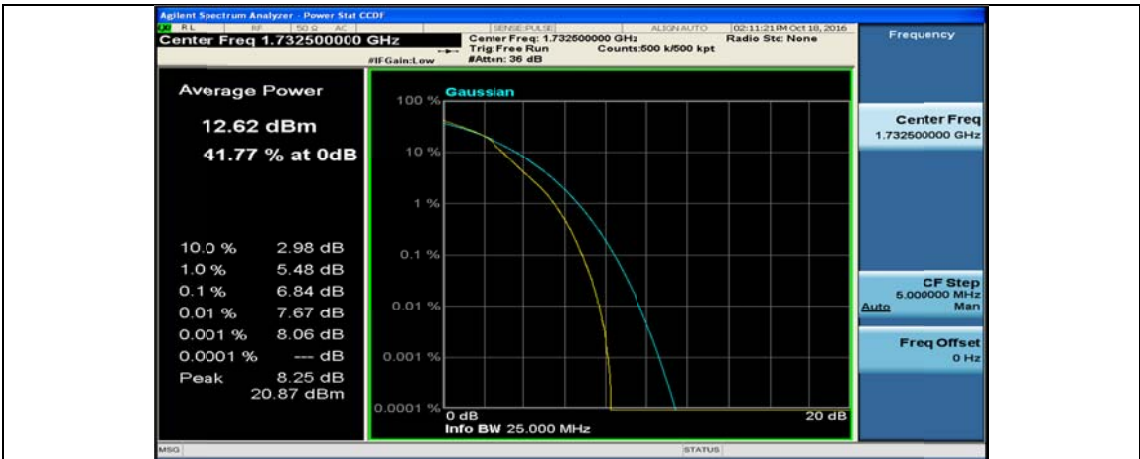
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7



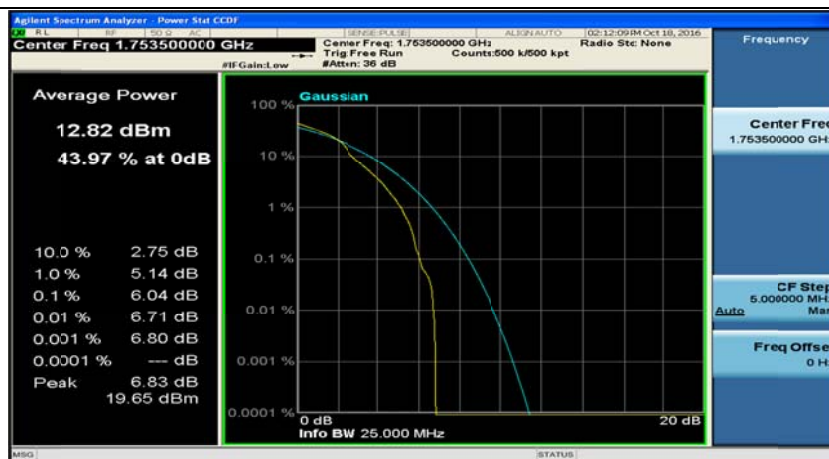
(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



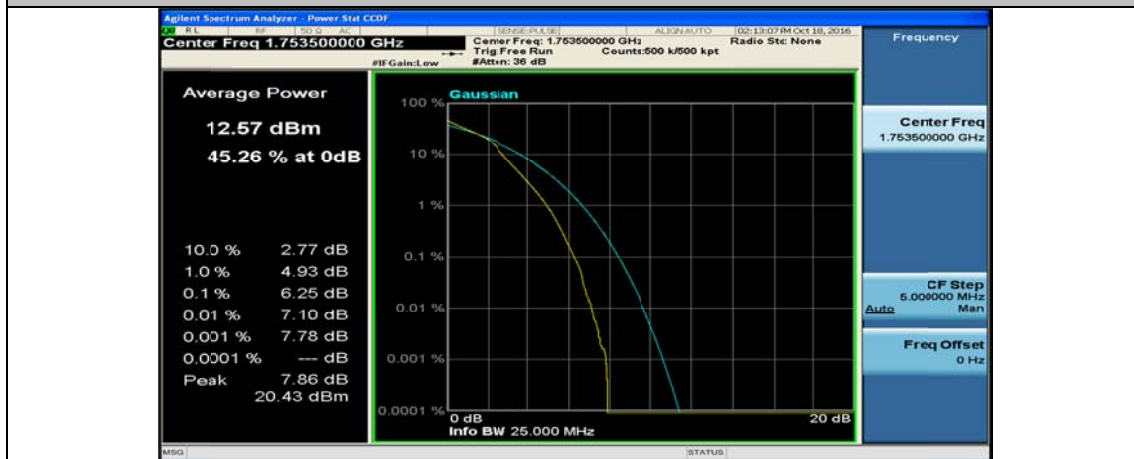
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7



(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0



Channel Bandwidth: 5 MHz

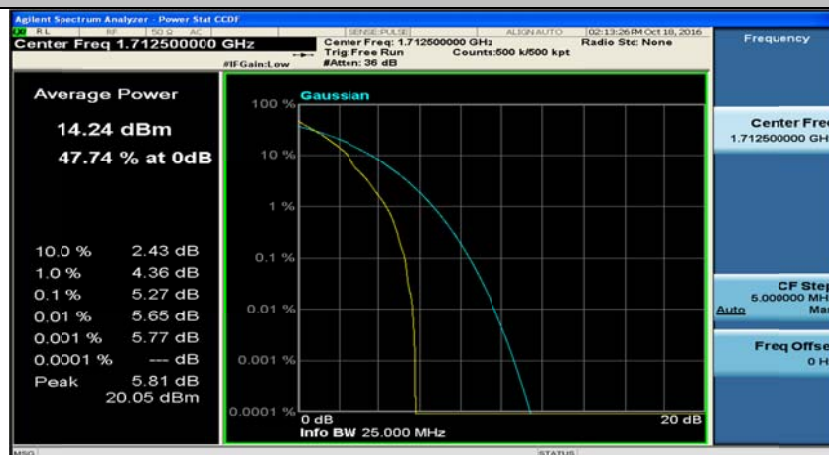
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



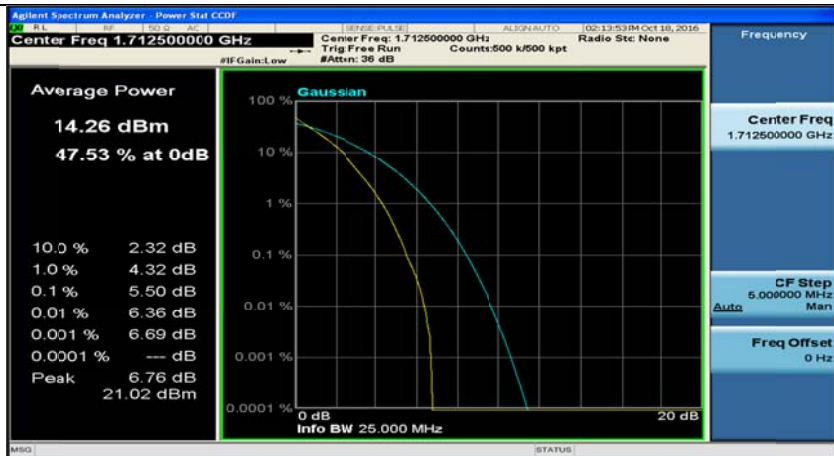
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



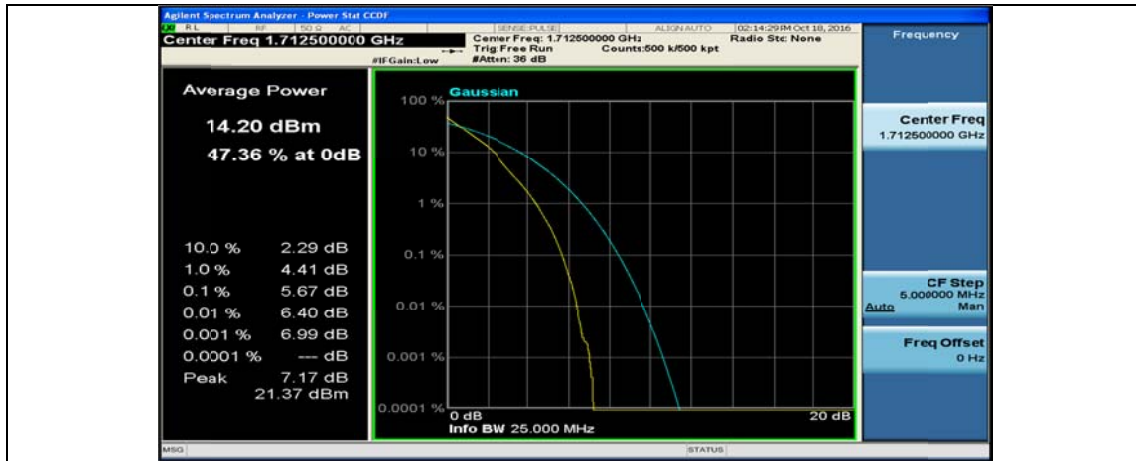
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



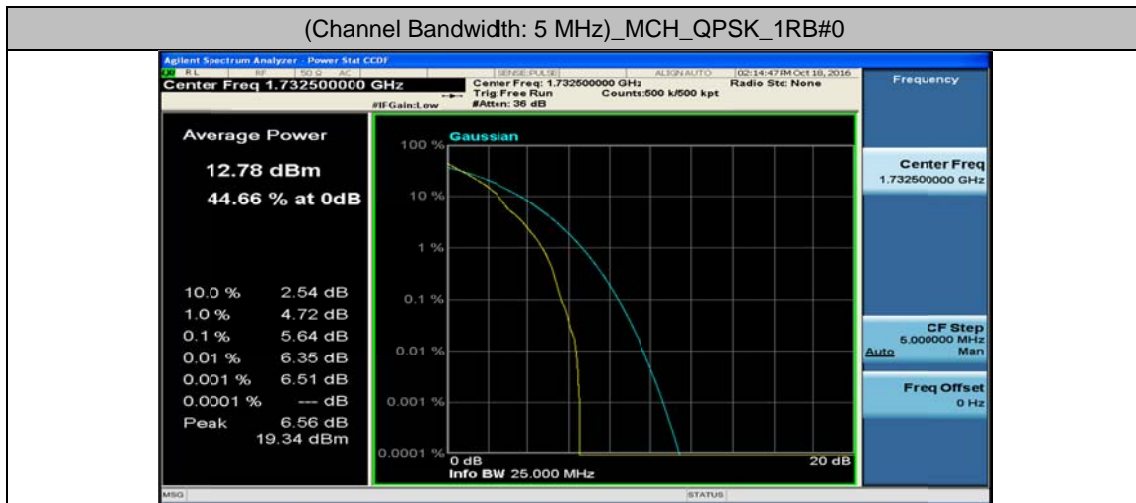
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



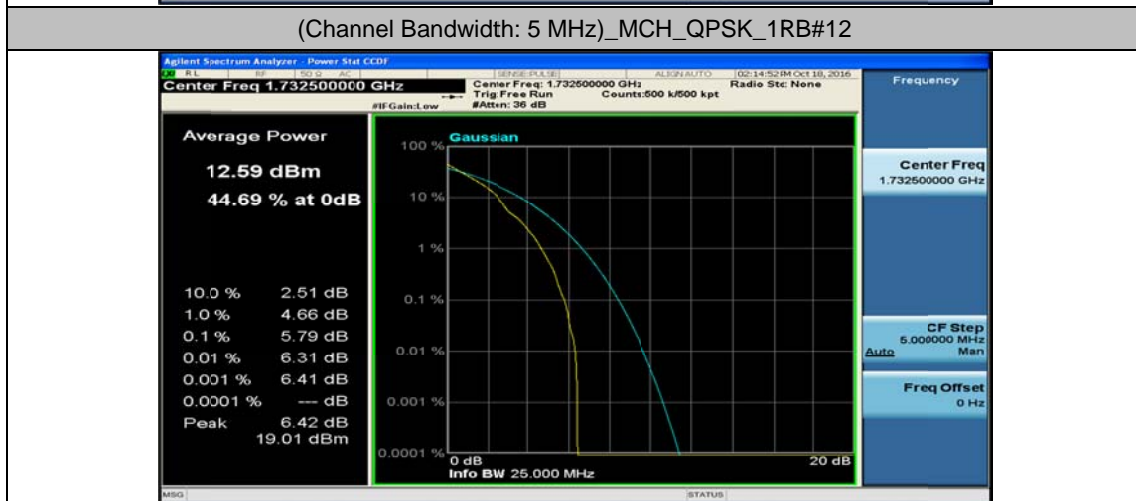
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



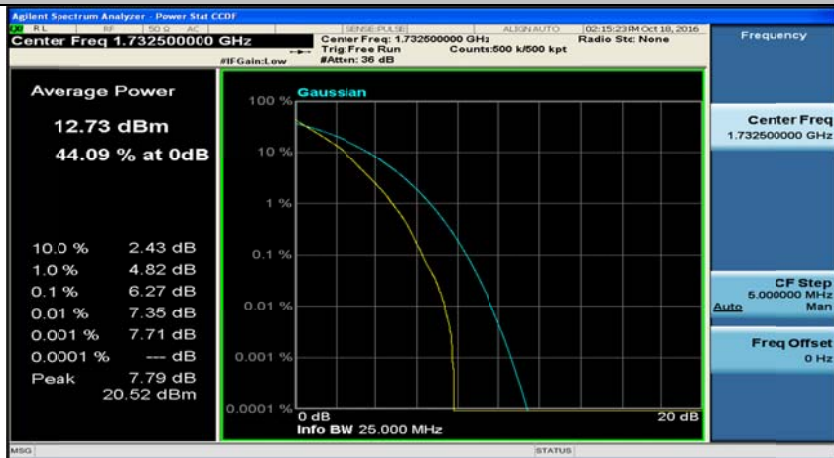
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



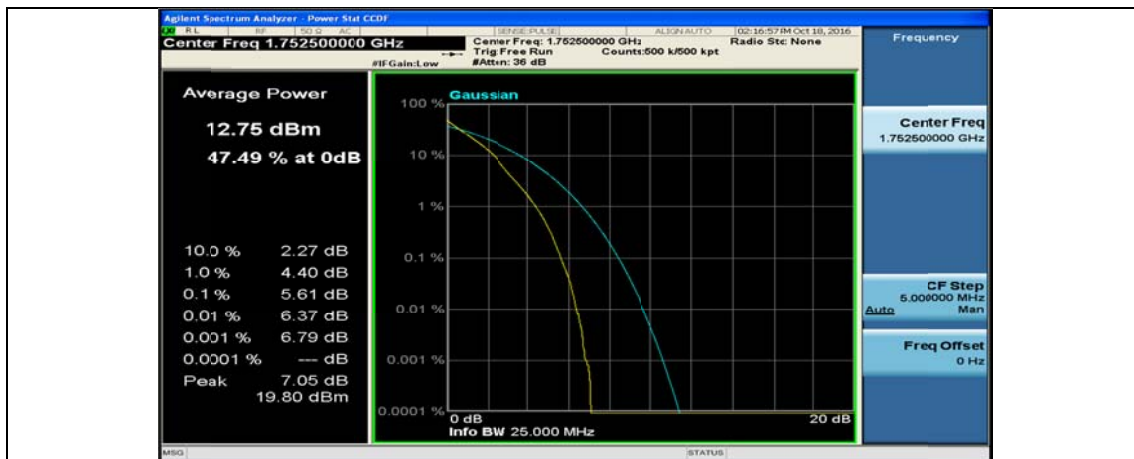
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



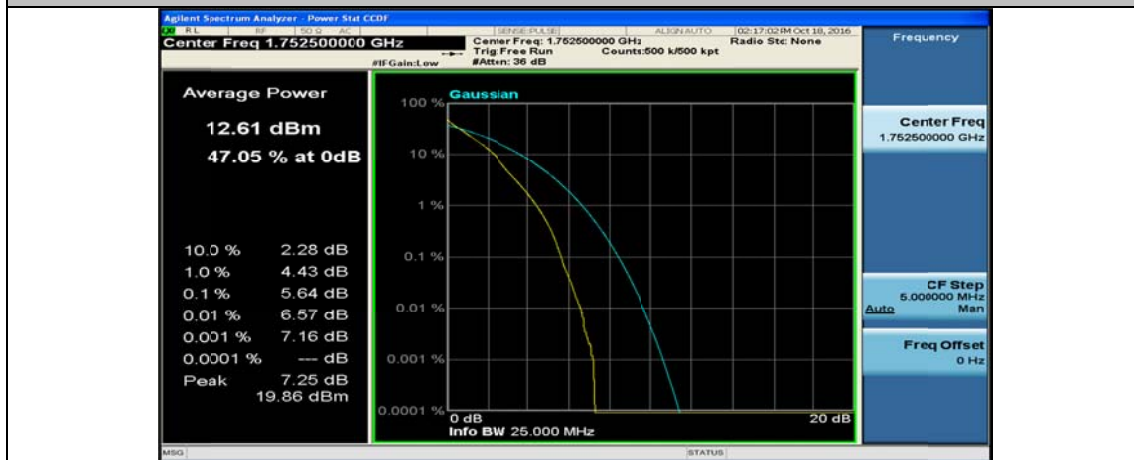
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



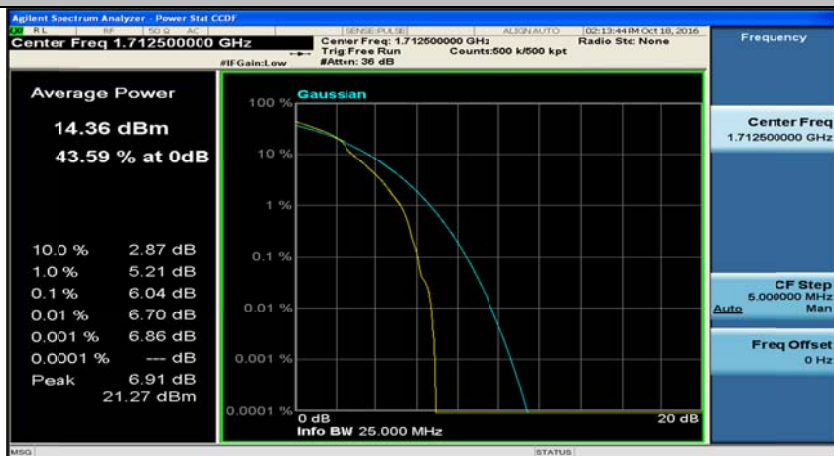
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



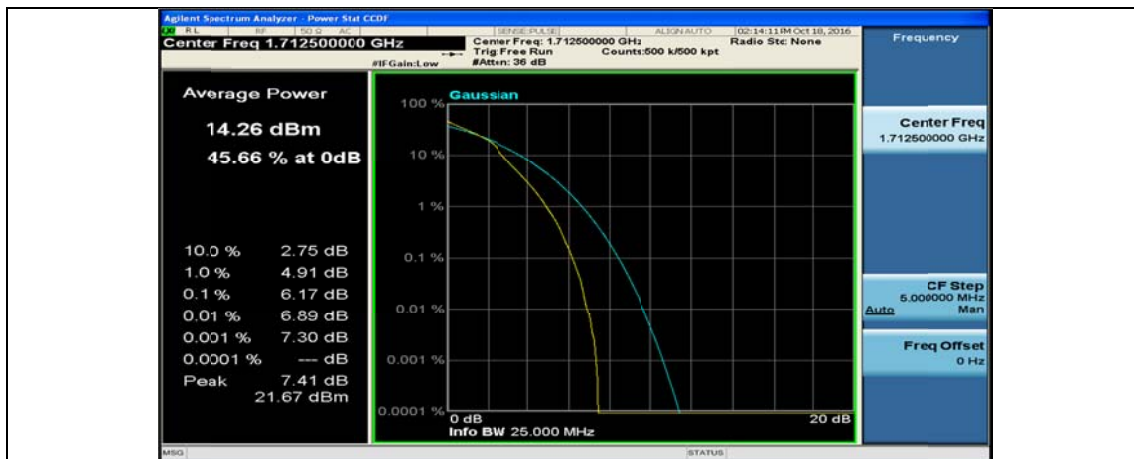
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



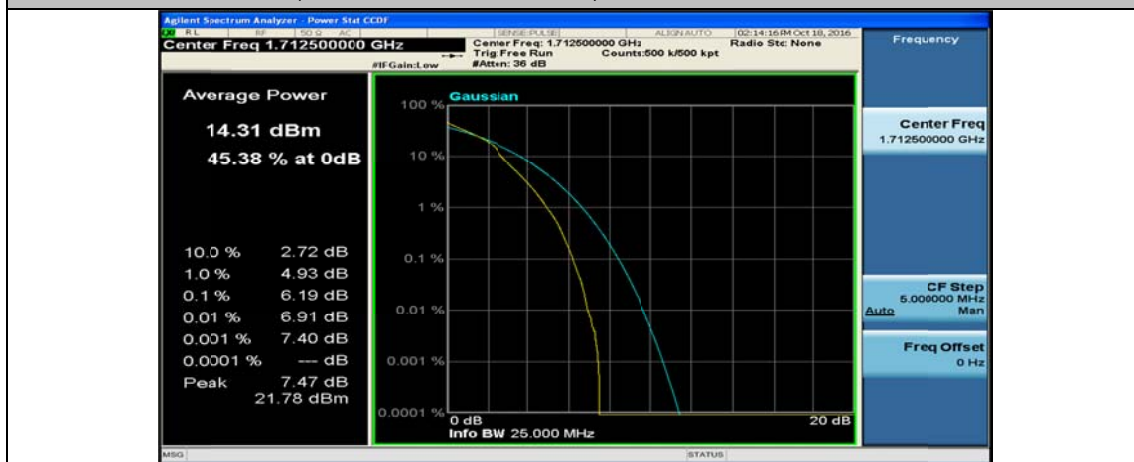
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

